

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

53. (Currently amended) A method for treating an asthmatic disorder, comprising: administering to an individual in need of treatment an 8F4 inhibitory molecule, ~~wherein said 8F4 inhibitory molecule is selected from the group consisting of an 8F4 polypeptide and~~ a monoclonal antibody that recognizes a human 8F4 polypeptide, wherein said 8F4 polypeptide:

- a) is an inducible T cell costimulatory molecule;
- b) occurs on two-signal-activated human T lymphocytes;
- c) exhibits a molecular weight of about 55 to 60 kilodaltons as determined by non-reducing sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS-PAGE); and
- d) is a dimer of two peptide chains exhibiting molecular weights of about 27 kilodaltons and 29 kilodaltons, as measured by reducing SDS-PAGE,

wherein the human 8F4 polypeptide is recognized by the antibody deposited with the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH ("DSMZ") and assigned accession no. DSM ACC2539;

and wherein the monoclonal antibody, in conjunction with anti-CD3 monoclonal antibody OKT3, costimulates proliferation of human T lymphocytes;

in an amount sufficient to ameliorate a symptom of the asthmatic disorder, such that the asthmatic disorder is treated.

54. (Canceled)

55. (Previously added) The method of Claim ~~53~~ 54, wherein the monoclonal antibody recognizes the human 8F4 polypeptide of about 55 kilodaltons to 60 kilodaltons, as determined by non-reducing SDS-PAGE.

56. (Previously added) The method of Claim ~~53~~ 54, wherein the monoclonal antibody recognizes the peptide chain of about 27 kilodaltons, as determined by reducing SDS-PAGE.

57. (Previously added) The method of Claim 53 ~~54~~, wherein the monoclonal antibody recognizes the peptide chain of about 29 kilodaltons, as determined by reducing SDS-PAGE.

58. (Previously added) The method of Claim 53 ~~54~~, wherein the monoclonal antibody recognizes a human 8F4 polypeptide present on activated human CD4+ T lymphocytes and activated human CD8+ T lymphocytes.

59. (Canceled)